

BEST AVAILABLE COPY

0590  
1202

#7



OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/042,347

DATE: 12/12/2002

TIME: 10:54:21

Input Set : A:\PTO.txt

Output Set: N:\CRF4\12122002\J042347.raw

3 <110> APPLICANT: O'Reilly, Michael S.  
4 Folkman, M. Judah  
6 <120> TITLE OF INVENTION: Nucleic Acid Molecules Encoding Endostatin Protein and  
Peptide Fragments  
7 Thereof  
9 <130> FILE REFERENCE: 05213-0880 (43170-249874)  
11 <140> CURRENT APPLICATION NUMBER: US 10/042,347  
12 <141> CURRENT FILING DATE: 2002-01-11  
14 <150> PRIOR APPLICATION NUMBER: US 09/315,689  
15 <151> PRIOR FILING DATE: 1999-05-20  
17 <150> PRIOR APPLICATION NUMBER: US 60/106,343  
18 <151> PRIOR FILING DATE: 1998-10-30  
20 <150> PRIOR APPLICATION NUMBER: US 09/154,302  
21 <151> PRIOR FILING DATE: 1998-09-16  
23 <150> PRIOR APPLICATION NUMBER: US 08/740,168  
24 <151> PRIOR FILING DATE: 1996-10-22  
26 <150> PRIOR APPLICATION NUMBER: US 60/005,835  
27 <151> PRIOR FILING DATE: 1995-10-23  
29 <150> PRIOR APPLICATION NUMBER: US 60/023,070  
30 <151> PRIOR FILING DATE: 1996-08-02  
32 <150> PRIOR APPLICATION NUMBER: US 60/026,263  
33 <151> PRIOR FILING DATE: 1996-09-17  
35 <160> NUMBER OF SEQ ID NOS: 6  
37 <170> SOFTWARE: PatentIn version 3.1  
39 <210> SEQ ID NO: 1  
40 <211> LENGTH: 20  
41 <212> TYPE: PRT  
42 <213> ORGANISM: Murinae sp.  
44 <400> SEQUENCE: 1  
46 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn  
47 1 5 10 15  
50 Thr Pro Leu Ser  
51 20  
54 <210> SEQ ID NO: 2  
55 <211> LENGTH: 10  
56 <212> TYPE: PRT  
57 <213> ORGANISM: Murinae sp.  
59 <400> SEQUENCE: 2  
61 Met Ala Arg Arg Ala Ser Val Gly Thr Asp  
62 1 5 10  
65 <210> SEQ ID NO: 3  
66 <211> LENGTH: 182  
67 <212> TYPE: PRT  
68 <213> ORGANISM: Homo sapiens

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/042,347

DATE: 12/12/2002

TIME: 10:54:21

Input Set : A:\PTO.txt

Output Set: N:\CRF4\12122002\J042347.raw

70 &lt;400&gt; SEQUENCE: 3

```

72 His Ser His Arg Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
73 1          5          10          15
76 Ser Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
77          20          25          30
80 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ala Gly Thr Phe Arg Ala
81          35          40          45
84 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
85          50          55          60
88 Asp Arg Ala Ala Val Pro Ile Val Asn Leu Lys Asp Glu Leu Leu Phe
89 65          70          75          80
92 Pro Ser Trp Glu Ala Leu Phe Ser Gly Ser Glu Gly Pro Leu Lys Pro
93          85          90          95
96 Gly Ala Arg Ile Phe Ser Phe Asp Gly Lys Asp Val Leu Arg His Pro
97          100         105         110
100 Thr Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Asn Gly Arg
101          115         120         125
104 Arg Leu Thr Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Ala Pro Ser
105          130         135         140
108 Ala Thr Gly Gln Ala Ser Ser Leu Leu Gly Gly Arg Leu Leu Gly Gln
109 145          150         155         160
112 Ser Ala Ala Ser Cys His His Ala Tyr Ile Val Leu Cys Ile Glu Asn
113          165         170         175
116 Ser Phe Met Thr Ala Ser
117          180

```

120 &lt;210&gt; SEQ ID NO: 4

121 &lt;211&gt; LENGTH: 546

122 &lt;212&gt; TYPE: DNA

123 &lt;213&gt; ORGANISM: Homo sapiens

125 &lt;400&gt; SEQUENCE: 4

```

126 cacagccacc gcgacttcca gccggtgctc cacctggttg cgctcaacag ccccctgtca      60
128 ggcggcatgc ggggcatccg cggggccgac ttccagtgt tccagcaggc gcgggcccgtg      120
130 gggctggcgg gcaccttccg cgcttctctg tctctgcgcc tgcaggacct gtacagcatc      180
132 gtgcgccgtg ccgaccgcgc agccgtgccc atcgtaacc tcaaggacga gctgctgttt      240
134 cccagctggg aggctctgtt ctacggctct gaggggtccg tgaagcccgg ggcacgcatc      300
136 ttctcctttg acggcaagga cgtcctgagg caccacacct ggcccagaa gagcgtgtgg      360
138 catggctcgg accccaacgg gcgcaggctg accgagagct actgtgagac gtggcggacg      420
140 gaggtccct cggccacggg ccaggcctcc tcgctgctgg ggggcaggct cctggggcag      480
142 agtgccgcga gctgccatca cgcctacatc gtgctctgca ttgagaacag cttcatgact      540
144 gcctcc                                     546

```

147 &lt;210&gt; SEQ ID NO: 5

148 &lt;211&gt; LENGTH: 178

149 &lt;212&gt; TYPE: PRT

150 &lt;213&gt; ORGANISM: Homo sapiens

152 &lt;400&gt; SEQUENCE: 5

```

154 Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn Ser Pro Leu Ser
155 1          5          10          15
158 Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln
159          20          25          30

```

## RAW SEQUENCE LISTING

DATE: 12/12/2002

PATENT APPLICATION: US/10/042,347

TIME: 10:54:21

Input Set : A:\PTO.txt

Output Set: N:\CRF4\12122002\J042347.raw

162 Ala Arg Ala Val Gly Leu Ala Gly Thr Phe Arg Ala Phe Leu Ser Ser  
 163           35                           40                           45  
 166 Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala Asp Arg Ala Ala  
 167       50                           55                           60  
 170 Val Pro Ile Val Asn Leu Lys Asp Glu Leu Leu Phe Pro Ser Trp Glu  
 171 65                           70                           75                           80  
 174 Ala Leu Phe Ser Gly Ser Glu Gly Pro Leu Lys Pro Gly Ala Arg Ile  
 175                           85                           90                           95  
 178 Phe Ser Phe Asp Gly Lys Asp Val Leu Arg His Pro Thr Trp Pro Gln  
 179                           100                           105                           110  
 182 Lys Ser Val Trp His Gly Ser Asp Pro Asn Gly Arg Arg Leu Thr Glu  
 183                           115                           120                           125  
 186 Ser Tyr Cys Glu Thr Trp Arg Thr Glu Ala Pro Ser Ala Thr Gly Gln  
 187       130                           135                           140  
 190 Ala Ser Ser Leu Leu Gly Gly Arg Leu Leu Gly Gln Ser Ala Ala Ser  
 191 145                           150                           155                           160  
 194 Cys His His Ala Tyr Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr  
 195                           165                           170                           175  
 198 Ala Ser

202 &lt;210&gt; SEQ ID NO: 6

203 &lt;211&gt; LENGTH: 534

204 &lt;212&gt; TYPE: DNA

205 &lt;213&gt; ORGANISM: Homo sapiens

207 &lt;400&gt; SEQUENCE: 6

208 gacttccagc cggtgctcca cctgggttgcg ctcaacagcc ccctgtcagg cggcatgcgg 60  
 210 ggcattccgc gggccgactt ccagtgtctc cagcaggcgc gggccgtggg gctggcgggc 120  
 212 accttccgcg ccttctgtgc ctgcgcctg caggacctgt acagcatcgt gcgccgtgcc 180  
 214 gaccgcgcag ccgtgcccac cgtcaacctc aaggacgagc tgctgtttcc cagctgggag 240  
 216 gctctgttct caggctctga ggggtccgctg aagcccgggg cacgcattct ctcctttgac 300  
 218 ggcaaggacg tcctgaggca cccacactgg cccagaaga gcgtgtggca tggctcggac 360  
 220 cccaacgggc gcaggctgac cgagagctac tgtgagacgt ggcggacgga ggctccctcg 420  
 222 gccacgggcc aggcctcctc gctgctgggg ggcaggctcc tggggcagag tgccgcgagc 480  
 224 tgccatcacg cctacatcgt gctctgcatt gagaacagct tcatgactgc ctcc 534

**RAW SEQUENCE LISTING ERROR SUMMARY**

DATE: 12/12/2002

PATENT APPLICATION: US/10/042,347

TIME: 10:54:22

Input Set : A:\PTO.txt

Output Set: N:\CRF4\12122002\J042347.raw

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/042,347**

**DATE: 12/12/2002**

**TIME: 10:54:22**

**Input Set : A:\PTO.txt**

**Output Set: N:\CRF4\12122002\J042347.raw**